

20040210.qrp v03_n192.qrl.20040210

Date: Tue, 10 Feb 2004 19:03:13 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 3192

QRP-L Digest 3192

Topics covered in this issue include:

- 1) [167471] Re: Tilted KX1 Holder
by "John" <johndorson@worldshare.net>
- 2) [167472] 17-15-10 Trap Dipole Question
by <k6whp@verizon.net>
- 3) [167473] LoTW QRP contacts...
by "Bruce & Bonnie Ratray" <ratray@accesscomm.ca>
- 4) [167474] Re: Buddipole configuration
by ARDUJENSKI@aol.com
- 5) [167475] Re: Do rules apply to testers ? A CLARIFICATION !
by Rick McKee <kc8aon@juno.com>
- 6) [167476] Re: Old Panasonic GX 400M radio
by Pat Byers and Jennifer Simpson <pbyers@rttinc.com>
- 7) [167477] RE: Solder Lugs
by Ed Tanton <n4xy@earthlink.net>
- 8) [167478] Re: AMATEUR'S CODE of CONDUCT
by "AD4MZ Bob C" <ellyncooley@earthlink.net>
- 9) [167479] Interesting HF (!!!) Active Filter
by Ed Tanton <n4xy@earthlink.net>
- 10) [167480] Solder Lugs
by Davewb4@aol.com
- 11) [167481] Re: 17-15-10 Trap Dipole Question
by Bob KB2FEL <kb2fel@yahoo.com>
- 12) [167482] Re: Solder Lugs
by David Toepfer <davetoepfer@yahoo.com>
- 13) [167483] Homebrewer 2
by "Randall M. Payne" <payner1@strato.net>
- 14) [167484] Re: Interesting HF (!!!) Active Filter
by Karl Larsen <k5di@zianet.com>
- 15) [167485] Elmer 160: AB5XQ
by "John J. McDonough" <wb8rcr@arrl.net>
- 16) [167486] Re: Losses for computer ribbon cable as a feedline
by "James R. Duffey" <JamesDuffey@comcast.net>
- 17) [167487] HW8 parts unit wanted cheap!
by "john gabbard" <johngabbard@usintouch.com>
- 18) [167488] Re: Homebrewer 2
by "NR5A" <nr5a@rap.midco.net>
- 19) [167489] Re: Homebrewer 2

- by John Zaruba Jr <aa2bn@comcast.net>
- 20) [167490] CQ VK4
by BruceAA5B@aol.com
- 21) [167491] Re: Homebrewer 2
by Michael Neverdosky <mikenever@earthlink.net>
- 22) [167492] Re: Homebrewer 2
by KD5NWA <KD5NWA@cbayona.com>
- 23) [167493] Re: Homebrewer 2
by Lloyd Lachow <llachow@yahoo.com>
- 24) [167494] Elmer 160, DDS
by "richqrp" <richqrp@cox.net>
- 25) [167495] Wooo Hooo!!!! Hit the daily double!!!!
by Lee Boulineau <n4mvl@yahoo.com>
- 26) [167496] Re: [NoGaQRP] Interesting HF (!!!) Active Filter
by "Michael C. Boatright" <ko4wx@mindspring.com>
- 27) [167497] Re: Homebrewer 2
by Hank Kohl K8DD <k8dd@arrl.net>
- 28) [167498] Re: Useful Oscilloscope
by "George, W5YR" <w5yr@att.net>
- 29) [167499] PiC-EL - New version 1.3 of PICElgen
by "Craig Johnson" <cbjohns@cbjohns.com>
- 30) [167500] OT... Need info on Gladiator QRP40-V Vertical...>
by "Pat Armstrong" <aa7fg@gte.net>
- 31) [167501] Re: Homebrewer 2
by Garey Barrell <k4oah@mindspring.com>
- 32) [167502] Re: 17-15-10 Trap Dipole Question
by ARDUJENSKI@aol.com
- 33) [167503] PIC-EL: Improved VFO code available
by "George Heron N2APB" <n2apb@clearviewcatv.net>
- 34) [167504] Re: PiC-EL - New version 1.3 of PICElgen
by "Lew Paceley" <lew@paceley.com>
- 35) [167505] Elmer 160 PIC-EL lives but not the DDS Daughterboard
by Lee Mairs <lmairs@direcway.com>
- 36) [167506] Re: Homebrewer 2
by Steve Lawrence <Steve.Lawrence@ITWFEG.COM>
- 37) [167507] Re: PIC-EL: Improved VFO code available
by "richqrp" <richqrp@cox.net>
- 38) [167508] Elecraft K2 Mini-Manual Now Available
by Wayne Burdick <n6kr@elecraft.com>
- 39) [167509] RE: Homebrewer 2
by "Vilhjalmur Sigurjonsson" <tf3vst@vortex.is>
- 40) [167510] 17-15-10 Trap Dipole [Sharp Bend in Coax -- OUCH]
by Chuck Carpenter <w5usj@9plus.net>
- 41) [167511] Re: Homebrewer 2
by Jimmy Lee <jrllaudio@bellsouth.net>
- 42) [167512] PIC-EL: a warning on build order, and a request for parts
by Scott D Hankin <shankin@us.ibm.com>
- 43) [167513] Re: CQ VK4

by Karl Larsen <k5di@zianet.com>
44) [167514] RE: Homebrewer 2
by "Thomas Lewis" <thomas_h_lewis@msn.com>
45) [167515] Re: PiC-EL - New version 1.3 of PICELgen
by "Craig Johnson" <cbjohns@cbjohns.com>
46) [167516] HW8
by "john gabbard" <johngabbard@usintouch.com>
47) [167517] RE: 17-15-10 Trap Dipole
by "Bill Rowlett" <kc4atu@hotmail.com>
48) [167518] Re: Homebrewer 2
by Howard W7ILW <howardw7ilw@earthlink.net>
49) [167519] Re: Elmer 160 PIC-EL lives but not the DDS Daughterboard
by "Lew Paceley" <lew@paceley.com>
50) [167520] Re: Useful Oscilloscope
by "Charles W3KC" <w3kc@starpower.net>
51) [167521] Re: DDS / SMD Solder Tip
by John Sielke <jsielke@pobox.com>
52) [167522] Argonaut 505 help
by Ken <kloc@commspeed.net>
53) [167523] FT-817 Desk Stand
by "Frank" <fking@oregonvos.net>
54) [167524] Re: Solder Lugs
by <igeq100@iupui.edu>
55) [167525] FS - DSW Rigs, Ten Tec Amp, SMK-1
by "Don Foster" <k5kw@azalea.net>
56) [167526] Re: Argonaut 505 help
by ultrafixedwing@juno.com
57) [167527] Re: 17-15-10 Trap Dipole Question
by "William Phinizy" <k6whp@verizon.net>
58) [167528] RE: 17-15-10 Trap Dipole [Sharp Bend in Coax -- OUCH]
by "Stephen Finch" <stevef88@msn.com>
59) [167529] Soldering Technique Question
by Shawn Qrp <shawnqrp@yahoo.com>
60) [167530] Removing oxidation on copper wires
by Alex <kr1st@amsat.org>
61) [167531] Re: Soldering Technique Question
by Dale Botkin <dale@botkin.org>
62) [167532] Re: [NoGaQRP] Interesting HF (!!!) Active Filter
by Ed Tanton <n4xy@earthlink.net>
63) [167533] RE: Soldering Technique Question
by "Nick Foster" <nfooster@bluefinrobotics.com>
64) [167534] Re: 17-15-10 Trap Dipole Question - Lattin Antenna
by "Bill Jones" <kd7s@psnw.com>
65) [167535] Re: Removing oxidation on copper wires
by ultrafixedwing@juno.com
66) [167536] RE: FT-817 Desk Stand
by "Paul Ermisch" <paul@ermisch.com>
67) [167537] OT: Georgia Travel Links

by Ed Tanton <n4xy@earthlink.net>
68) [167538] Re: Removing oxidation on copper wires
by Ed Tanton <n4xy@earthlink.net>
69) [167539] OT: Rat Crumbs & Blueberry Muffins
by "Lee Hopper" <leehopp@msn.com>
70) [167540] Re: Soldering Technique Question
by Tom Severt <n2uhc@yahoo.com>
71) [167541] Re: Elmer 160 PIC-EL lives but not the DDS Daughterboard
by Lee Mairs <lmairs@direcway.com>
72) [167542] Re: Soldering Technique Question
by Bob KB2FEL <kb2fel@yahoo.com>
73) [167543] Re: Homebrewer 2
by Bob Nielsen <nielsen@oz.net>
74) [167544] Elmer 160 - Da Pickel is back!
by "Brian Riley (maillist)" <n1bq_list@wulfdn.org>
75) [167545] Re: Homebrewer 2
by Jimmy Lee <jrlaudio@bellsouth.net>
76) [167546] Re: Buy items from people you don't know
by "Thom R. Lacosta" <lacosta@bcpl.net>
77) [167547] Elmer 160 PIC-EL DDS Success - a caution
by "Brian Riley (maillist)" <n1bq_list@wulfdn.org>
78) [167548] Re: Buy items from people you don't know
by John Sielke <jsielke@pobox.com>
79) [167549] PIC EL ELMER 160 question lesson 6
by "kennymac" <killmodell@earthlink.net>
80) [167550] Re: Homebrewer 2
by "Donald Jacob" <djacob1@socal.rr.com>
81) [167551] RE: 17-15-10 Trap Dipole
by <k6whp@verizon.net>
82) [167552] FS - DSW-20 and Ten Tec 405 Amp
by "Don Foster" <k5kw@azalea.net>
83) [167553] PIC-EL and DDS Now WOrking
by Lee Mairs <lmairs@direcway.com>
84) [167554] Re: Homebrewer 2
by "Terry Permenter" <top@whidbey.com>
85) [167555] Amq2
by "carl seyersdahl" <carlseye@tampabay.rr.com>
86) [167556] Re: Homebrewer 2
by John Sielke <jsielke@pobox.com>
87) [167557] Argonaut fixed...:))
by Ken <kloc@commspeed.net>
88) [167558] Re: PIC EL ELMER 160 question lesson 6
by "Lew Paceley" <lew@paceley.com>
89) [167559] ScQRPion Special keyers
by Dale Botkin <dale@botkin.org>

Date: Mon, 9 Feb 2004 18:59:46 -0500
From: "John" <johndorson@worldshare.net>
To: <W0rw@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [167471] Re: Tilted KX1 Holder
Message-ID: <001901c3ef68\$d00e4820\$01a8f243@ATHOME>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Some one a while ago suggested using the old style door stops. I use two of them to support MFJ-971 and MFJ-9020 combo and it works great.

John K2JHU...

----- Original Message -----

From: <W0rw@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, February 09, 2004 5:02 PM
Subject: Tilted KX1 Holder

> The old 3M 'Post-it Notes' holder (Model C-45) holds the KX1 really nicely
> on
> your desk at a 15 degree tilt.
> The KXPD1 paddle is right in the correct position for sending.
> There are several variations of this Post-it holder, so you might have to
> make modifications to the bottom lip of the Post-it holder,
> (like cut a slot for the paddle).
>
> Paul W0rw
>
>
>
>

Date: Mon, 9 Feb 2004 18:03:00 -0600
From: <k6whp@verizon.net>
To: <qrp-l@Lehigh.EDU>
Subject: [167472] 17-15-10 Trap Dipole Question
Message-ID: <20040210000300.QBGV23576.out002.verizon.net@outgoing.verizon.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Can anyone point me to a reference for building a 17-15-10 trap dipole. I can't seem to locate anything on the internet. Commercial references are o.k. and any help is appreciated.

72,

Bill, k6whp

Date: Mon, 9 Feb 2004 18:06:33 -0600
From: "Bruce & Bonnie Rattray" <rattray@accesscomm.ca>
To: "QRP-L QRP LIST" <qrp-l@Lehigh.EDU>,
"QRP Canada" <qrp-canada@neale.gpfn.sk.ca>
Subject: [167473] LoTW QRP contacts...
Message-ID: <000f01c3ef69\$be5434e0\$8700a8c0@accesscomm.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello everyone - I have been learning and struggling a bit but with help from Dave, NN1N, I have successfully set up my two calls, VE5RC and VE5QRP on LoTW...I have just finished uploading 99% of my 825 VE5QRP qsos so those are available now for award use...
...I will finish the 1% in the next day or so and then begin on uploading my VE5RC Qs which are somewhere around 4300 of them...my 67 year old brain struggles with this 'computer stuff' but maybe it's the challenge eh!?...or I don't know when "to fold"...I have a headache now eh!?...hihihi...72 -
Bruce ve5rc/ve5qrp

Date: Mon, 9 Feb 2004 19:08:41 EST
From: ARDUJENSKI@aol.com
To: w6toy@erols.com, qrp-l@lehigh.edu
Subject: [167474] Re: Buddipole configuration
Message-ID: <e6.470090e8.2d597b09@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Bruce and group

It was my understanding, and correct me if I am wrong, that using the label dBi it becomes relative gain that you can then compare antenna to antenna vs

using dB

<http://www.cebik.com/dbi.html>

I will admit that my modeling is not precise with EZNEC but it gives me relative or ballpark patterns. No, my modeling does not take into account all the various ground conditions nor other environmental influences. Also for coils I have devised my own method of accounting for coils by conducting computer runs on short length, resonant length and an average length and compare them and adjust the figures accordingly.

By not being specific in details and requesting feedback I can see how close my approximations were. I have conducted for example analysis on the INVERTED HALF SQUARE where I use loading coils for 40m operation and compared with full quarter wave verticals in the field getting very similar results in signal strengths and rejection off the ends.

Not being exact but also compare in the field with a full quarter wave where there is good data already along with an EZNEC run to compare. Also the 1/4w1 vertical sort of takes into account feedline and ground and other environmental considerations.

Is this an exact science...no...is it a good relative indicator....based upon several comparisons....yes I think so. Having a good idea of what pattern to expect and relative lobe strengths it helps me to chose ahead of time which antenna is best suited for a particular job.

For example am I better off with a 44ft dipole at 10ft or a 33 by 33ft Inverrrted-L. Normally I would have to take a wild guess but with these relative comparisons I can make somewhat intelligent choices. Now will I pick an antenna because of a 1dBi better number--NO. My FIRST concern is the pattern and angles, then the strength and the ease of setting up that antenna. Also do I want to be able to rotate the antenna or set it up for one direction. Also I get some relative impedance values that I normally compare with the calculation from G4FGQ which are pretty reliable. For example this approach led me to the finding that one of the best configurations impedance wise for an INVERTED-L is to keep both legs the same. This was tried and proven in the field at one of the QRP events.

For me it gets me in the ballpark. For the purist I am sure they find this revolting approach. But for me it has a proven track record. So my apology to those offended by this post. Future ones will have a qualification NOT FOR ENGINEERS. I do invite those more adept in this area of modeling to do their own analysis and share it with the group. i don't claim any expertise here. So hopefully I have clarified the original post

Getting back to the original question, I am still looking for feedback on

actual usage of the Buddipole type configuration in VEE shape and your experiences. If I am offbase feel free to slap my knuckles a few times

Alan KB7MBI in Woodinville, WA
FISTS 5702 / ARS / Proud member of ARRL
--- --- --- --- DIT DIT

Date: Mon, 9 Feb 2004 19:11:14 -0500
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [167475] Re: Do rules apply to testers ? A CLARIFICATION !
Message-ID: <20040209.191125.9494.6.kc8aon@juno.com>

Gang,

To clarify things a bit, my original post on this matter had a poor choice of words on my part ! I did not mean to imply that all testers were bad operators ! I'm sure there are a lot of good operators out there in the contest community ! But there seems to be an increasing number of inconsiderate operators in the entire amateur community as a whole, but are probably more noticeable in the contest community due to fact of more of them being on the air at one common time. My point behind my original post was to stress the need for us all to make every effort humanly possible to make sure a frequency is clear before we ever begin to transmit. It doesn't matter if you are contesting or rag chewing, you should always be as sure as possible that you are not interfering with someone else's qso in progress ! It's just common decency to do so ! My rag chewing is just as important to me as your contesting is to you, and one is not better than the other ! It's up to each individual to choose whichever he desires to do, but whichever you choose to do, do it in a way that doesn't lessen the enjoyment of others ! That's all I was trying to say, nothing more, nothing less ! And if you get upset over that, well, I simply can't help it !

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
SW-20+, SW-30+, SW-40+, Norcal BLT, Yaesu FT-7, Homebrew 6V6 tube TX
QRP-L #2112, FPqrp #33, AR QRP, AmQRP, Ohio Valley Fists, MQFD #1
Monthly QRP Field Day info at : <http://www.smartgroups.com/groups/mqfd>
Without CW, it's only CB ! KNOW code - not - NO code !

The best thing to hit the Internet in years - Juno SpeedBand!
Surf the Web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Mon, 09 Feb 2004 17:30:52 -0700
From: Pat Byers and Jennifer Simpson <pbyers@rttinc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [167476] Re: Old Panasonic GX 400M radio
Message-ID: <6.0.1.1.0.20040209172624.01b0b5a8@mail.rttinc.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello again.

Silly me. I just flipped the radio over and discovered the real model number - something I should have done before my last post. I wish these manufacturers would call their products by one name only.

Anyway, my radio is a National Panasonic RF-966B and a Google query brings up several hits. If only I could read Russian. <g> I'm still looking for a schematic, manual, or service manual if anyone out there has one to spare or knows where I can get one.

TIA es 73,

Pat Byers VE6AAN

Date: Mon, 09 Feb 2004 19:46:45 -0500
From: Ed Tanton <n4xy@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [167477] RE: Solder Lugs
Message-ID: <6.0.3.0.2.20040209194557.01e93e20@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Mouser and Digikey sell solder lugs at reasonable prices.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."
--Mark Twain

Date: Mon, 9 Feb 2004 20:07:26 -0500
From: "AD4MZ Bob C" <ellyncooley@earthlink.net>
To: <k8dd@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [167478] Re: AMATEUR'S CODE of CONDUCT
Message-ID: <000901c3ef72\$40417e10\$b7f51d43@system2002>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I remember that. Just pulled my original 1963 ARRL Handbook off the shelf
and there it is just inside the cover. Used to believe that all hams went
by that and that is what made the group special. I also remember the how it
was when half of the hams on 75 m were still using AM and the other half
were on SSB. It was not always a friendly mix. We survived that didn't
we?

Bob

----- Original Message -----
From: "Hank Kohl K8DD" <k8dd@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, February 09, 2004 8:53 AM
Subject: AMATEUR'S CODE of CONDUCT

> AMATEUR'S CODE of CONDUCT
>
> The Radio Amateur is:
>
> CONSIDERATE...never knowingly operates in such a way as to lessen the
> pleasure of others.
>
> LOYAL...offers loyalty, encouragement and support to other amateurs, local
> clubs, and the American Radio Relay League, through which Amateur Radio in
> the United States is represented nationally and internationally.
>
> PROGRESSIVE...with knowledge abreast of science, a well-built and
efficient
> station and operation above reproach.
>
> FRIENDLY...slow and patient operating when requested; friendly advice and
> counsel to the beginner; kindly assistance, cooperation and consideration
> for the interests of others. These are the hallmarks of the amateur
spirit.
>
> BALANCED...radio is an avocation, never interfering with the duties owed
to
> the family, job, school or community.
>
> PATRIOTIC...station and skill always ready for service to country and
> community.
>
> The original Amateur's Code was written by:
> Paul M. Segal, W9EEA, in 1928.
>
> Some days it gets pretty tough to follow, doesn't it?!?
>

Date: Mon, 09 Feb 2004 20:12:48 -0500
From: Ed Tanton <n4xy@earthlink.net>
To: QRP-L <qrp-l@lehigh.edu>, noga <nogaqrp@mailman.qth.net>
Subject: [167479] Interesting HF (!!!) Active Filter
Message-ID: <6.0.3.0.2.20040209200010.01df5ec0@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I was just cruising around the 'net, and followed up on an email 'What's
New at LTC' I received earlier today. One thing I ran into bears

investigation: The LT1568 Very Low Noise, High Frequency Active RC, Filter Building Block. Up to 10MHz (yes Virginia: 10MHz) Center Frequency, and with unequal freq set resistors, up to 10MHz Cutoff Freq.

You can find the datasheet at:

<<http://www.linear.com/prod/datasheet.html?datasheet=963>> .

It is not DESIGNED for the kind of narrow bandpass filters we like, but their Design Guide WILL still calculate the values for, say, a 7050 kHz 4th order BPF with a 3dB BW of 500Hz. It warns you the IC might not work with the values, but until I can try one and see it fail miserably (the misery would be all mine) I won't KNOW whether it flies or not. All sorts of IF filtering certainly come to mind.

72/73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".

--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."

--Mark Twain

Date: Mon, 9 Feb 2004 20:12:55 EST
From: Davewb4@aol.com
To: qrp-1@lehigh.edu

Subject: [167480] Solder Lugs
Message-ID: <1ef.18a5f10c.2d598a17@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

At the Miami Hamfest last weekend a lady vendor was selling solder lugs at 25 for a buck. She said she will be at Orlando this weekend. She had a box of a few thousand. Someone who is going to Orlando this weekend might look for her. If I knew they were so hard to get I would have bought more than 25.

73

Dave Rogers
WB4CHK
Plantation, FL

Date: Mon, 9 Feb 2004 17:43:19 -0800 (PST)
From: Bob KB2FEL <kb2fel@yahoo.com>
To: k6whp@verizon.net,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [167481] Re: 17-15-10 Trap Dipole Question
Message-ID: <20040210014319.56778.qmail@web60508.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi Bill,

You may have a problem with the interaction of the 17 meter trap and the 15 meter trap but in any case here is a good link for a trap dipole idea. You only need to build two traps for 10 and 15 a wire for 17 meters off the end of the 15 meter trap.

<<http://users.tellurian.com/jdegood/coaxtrap/>>

hope this helps

72
Bob
KB2FEL
<<http://www.geocities.com/kb2fel/kb2felqrp.html>>

--- k6whp@verizon.net wrote:

> Can anyone point me to a reference for building a
> 17-15-10 trap dipole. I can't seem to locate
> anything on the internet. Commercial references are
> o.k. and any help is appreciated.

>
> 72,
>
> Bill, k6whp
>

Do you Yahoo!?
Yahoo! Finance: Get your refund fast by filing online.
<http://taxes.yahoo.com/filing.html>

Date: Mon, 9 Feb 2004 18:05:41 -0800 (PST)
From: David Toepfer <davetoepfer@yahoo.com>
To: rjohnson390@comcast.net,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [167482] Re: Solder Lugs
Message-ID: <20040210020541.20997.qmail@web12824.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

and Ocean State electronics

http://www.oselectronics.com/ose_p102.htm

dt

.

--- rjohnson390@comcast.net wrote:
> Check Dan's Small Parts.
> <http://www.danssmallpartsandkits.net/>
>
> cheers,
> rich
> > Anybody know a good place to pick up some solder lugs cheap?????/
> >
> > RS doesn't carry them anymore and I'm not finding anything on e-rip.
> > I see Ocean States has them listed but not at a real cheap price.
> >
> > Any ideas?????
> >
> > Thanks:
> >
> > 72 Jerry N0JRN
> > FP # 546, 4SQR, ARS # 923, ARCI # 11049, ARRL,
> > Springfield, Mo. MP + #8

> > <http://home.mchsi.com/~n0jrn>
> >
> >

Date: Mon, 09 Feb 2004 21:21:24 -0500
From: "Randall M. Payne" <payner1@strato.net>
To: qrp-1@Lehigh.EDU
Subject: [167483] Homebrewer 2
Message-ID: <YWRPKHTOTNZWA8KINHJCB85DCP3XWQ.40284024@e2j0s5>
MIME-Version: 1.0
Content-Type: text/plain; charset="windows-1252"

Am I the only one in the country who hasn't received Homebrewer #2? I understand the delay in publishing, but the delay in mailing seems to be excessive.
Randy K4EZM

Date: Mon, 9 Feb 2004 19:37:24 -0700 (MST)
From: Karl Larsen <k5di@zianet.com>
To: Ed Tanton <n4xy@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [167484] Re: Interesting HF (!!!) Active Filter
Message-ID: <Pine.LNX.4.44.0402091922420.5286-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 9 Feb 2004, Ed Tanton wrote:

> I was just cruising around the 'net, and followed up on an email 'What's
> New at LTC' I received earlier today. One thing I ran into bears
> investigation: The LT1568 Very Low Noise, High Frequency Active RC, Filter
> Building Block. Up to 10MHz (yes Virginia: 10MHz) Center Frequency, and
> with unequal freq set resistors, up to 10MHz Cutoff Freq.
>
> You can find the datasheet at:
> <<http://www.linear.com/prod/datasheet.html?datasheet=963>> .

No you can't Ed. There is something wrong with your URL. But I got the data by just going to <http://www.linear.com/> and then putting in the chip number.

>
> It is not DESIGNED for the kind of narrow bandpass filters we like, but
> their Design Guide WILL still calculate the values for, say, a 7050 kHz 4th
> order BPF with a 3dB BW of 500Hz. It warns you the IC might not work with
> the values, but until I can try one and see it fail miserably (the misery
> would be all mine) I won't KNOW whether it flies or not. All sorts of IF
> filtering certainly come to mind.

>
What you don't mention Ed is this chip operates from 3 volts
(2.75 v) and is designed to work in cell phones in many ways. I ordered
a set of chips of this type for \$5.00 for engineer samples. The 5 bucks
were for shipping...:-)

> 72/73 Ed Tanton N4XY <n4xy@earthlink.net>

>
> Ed Tanton N4XY
> 189 Pioneer Trail
> Marietta, GA 30068-3466
>
> website: <http://www.n4xy.com>
>
> All emails <IN> & <OUT> checked by
> Norton AntiVirus with AutoProtect
>
> LM: ARRL QCWA AMSAT & INDEXA;
> SEDXC NCDXA GACW QRP-ARCI
> OK-QRP QRP-L #758 K2 (FT) #00057
>

> -----
> "He that gives up a little liberty to gain
> temporary security will lose both and
> deserve neither".
> --Benjamin Franklin
>
> "Suppose you were an idiot ...
> and suppose you were a member of
> Congress... but I repeat myself."
> --Mark Twain
> -----

>
>
>
>

--

- Karl Larsen k5di Las Cruces, NM Az ScQRPions -

Date: Mon, 9 Feb 2004 21:37:34 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [167485] Elmer 160: AB5XQ
Message-ID: <005f01c3ef7e\$d739e800\$090044c0@BrianBoru>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I got a question from Bill but unfortunately his email bounced when I tried to reply (after waiting 7 hours of course!) I figured I would answer his question here since a number of folks have run into the same thing. (I'm assuming he reads QRP-L because his call shows up in the fox logs a lot!)

Before assembling, you must go to Configure->Select Processor and pick 16F84A off the dropdown. You need to do this the first time, and any time you change processors. If you load a workspace for, say, the 16F628, then go create a new 16F84A project, the default will be left for the 628.

Second, when you get a pile of errors (such as is caused by the problem above), it's generally better to fix the first error and then re-assemble before chasing down a bunch of false leads. However, sometimes something will leap out as being relevant even though there was a more serious problem earlier. For example:

```
Error[105]  C:\PIC\TEST\TEST.ASM 4 : Cannot open file (Include File
"<p16f84an.inc" not found)
```

is an error indicating that there was a typo in the file name.

hope this helps...

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Mon, 09 Feb 2004 19:43:03 -0700
From: "James R. Duffey" <JamesDuffey@comcast.net>
To: <michael.babineau@sympatico.ca>
Cc: QRP-L <qrp-l@lehigh.edu>
Subject: [167486] Re: Losses for computer ribbon cable as a feedline
Message-ID: <BC4D9347.11E75%JamesDuffey@comcast.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Mike - I did some calculations on using computer ribbon line as feeders awhile back. Unfortunately I cannot locate those at the moment.

I do recall that my calculations showed that WE6W's measurements were low by a dB or more, so the advantages of the computer ribbon feedline were not as significant as they first appeared after Ed published his numbers. This is not unexpected, the losses at HF for feedlines are largely due to the Ohmic resistance of the conductors, and the computer feeders are pretty high in that standpoint as they use small conductors. The dielectric losses are generally lower than the Ohmic losses in feedlines at HF, and usually insignificant, but the vinyl insulator used in ribbon line is pretty high in loss and contributes significantly to the loss.

I could redo the calculations, or you could do them yourself. The loss equations for balanced feeders are well known, but for some reason they are not in the Antenna Book .

Feedline is a poor place to scrimp in an antenna system. Spend a few more bucks on a good feedline made with a high quality dielectric that is intended to be a feedline. Several vendors offer high quality 300 Ohm window line that is nearly as lightweight as the ribbon line with less loss. Just my \$0.72 worth. - Duffey

James R. Duffey KK6MC/5
Cedar Crest NM 87008 DM65

Date: Mon, 9 Feb 2004 19:02:49 -0800
From: "john gabbard" <johngabbard@usintouch.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [167487] HW8 parts unit wanted cheap!
Message-ID: <008b01c3ef82\$5e90ca00\$f6811c0c@john>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The one I am trying to restore has a bad push button band switch. Does any one have a non-working one they will part with? Thanks ,73's John KF70M

Date: Mon, 9 Feb 2004 20:09:00 -0700
From: "NR5A" <nr5a@rap.midco.net>
To: <payner1@strato.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [167488] Re: Homebrewer 2
Message-ID: <023a01c3ef83\$3adbe670\$3865dc18@jerry>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Nope! It ain't made it to the small forgotten country of South Dakota yet either.

Jerry - NR5A - South Dakota

----- Original Message -----

From: "Randall M.Payne" <payner1@strato.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, February 09, 2004 7:21 PM
Subject: Homebrewer 2

> Am I the only one in the country who hasn't received Homebrewer #2? I
> understand the delay in publishing, but the delay in mailing seems to be
> excessive.
> Randy K4EZM
>
>
>
>

Date: Mon, 9 Feb 2004 22:12:29 -0500
From: John Zaruba Jr <aa2bn@comcast.net>
To: payner1@strato.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [167489] Re: Homebrewer 2
Message-ID: <F5D1D23D-5B76-11D8-AE2B-000A9582B952@comcast.net>

Mime-Version: 1.0 (Apple Message framework v612)
Content-Type: text/plain; charset=US-ASCII; format=flowed
Content-Transfer-Encoding: 7bit

Don't feel lonely, I haven't gotten mine either.

73,

John AA2BN

On Feb 9, 2004, at 21:21, Randall M.Payne wrote:

> Am I the only one in the country who hasn't received Homebrewer #2? I
> understand the delay in publishing, but the delay in mailing seems to
> be
> excessive.
> Randy K4EZM
>
>

Date: Mon, 9 Feb 2004 22:27:44 EST
From: BruceAA5B@aol.com
To: qrp-l@lehigh.edu, cq-contest@contesting.com
Subject: [167490] CQ VK4
Message-ID: <bf.3b95da99.2d59a9b0@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I'll be in and around Brisbane from 2/15 through 2/29. Anyone want to get together for a visit?

-Bruce AA5B

Date: Mon, 09 Feb 2004 22:29:09 -0500
From: Michael Neverdosky <mikenever@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [167491] Re: Homebrewer 2
Message-ID: <40285005.7336570@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Not here in Homosassa, FL yet either.

I have elmer 160 lessons to catch up on, a DDS daughter card to build, a power meter to build, and many other projects.

I can wait until it gets here.

I Can wait until it gets here.

I do watch for the letter carrier for the Homebrewer and my PIC-El.

michael N6CHV

John Zaruba Jr wrote:

>

> Don't feel lonely, I haven't gotten mine either.

>

> 73,

>

> John AA2BN

>

> On Feb 9, 2004, at 21:21, Randall M.Payne wrote:

>

> > Am I the only one in the country who hasn't received Homebrewer #2? I

> > understand the delay in publishing, but the delay in mailing seems to

> > be

> > excessive.

> > Randy K4EZM

> >

> >

Date: Mon, 09 Feb 2004 21:30:23 -0600

From: KD5NWA <KD5NWA@cbayona.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [167492] Re: Homebrewer 2

Message-ID: <5.2.0.9.0.20040209212929.00a76618@127.0.0.1>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I also have not received my copy.

At 08:21 PM 2/9/2004, Randall M.Payne wrote:

>Am I the only one in the country who hasn't received Homebrewer #2? I

>understand the delay in publishing, but the delay in mailing seems to be

>excessive.

>Randy K4EZM

Cecil
KD5NWA

Date: Mon, 9 Feb 2004 19:31:02 -0800 (PST)
From: Lloyd Lachow <llachow@yahoo.com>
To: payner1@strato.net,
 Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [167493] Re: Homebrewer 2
Message-ID: <20040210033102.8828.qmail@web41007.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- "Randall M.Payne" <payner1@strato.net> wrote:
> Am I the only one in the country who hasn't received
> Homebrewer #2? I
> understand the delay in publishing, but the delay in
> mailing seems to be
> excessive.
> Randy K4EZM
>
>

I got mine, here in Maryland, late last week.

It's good.

LL

Do you Yahoo!?
Yahoo! Finance: Get your refund fast by filing online.
<http://taxes.yahoo.com/filing.html>

Date: Mon, 9 Feb 2004 19:31:08 -0800
From: "richqrp" <richqrp@cox.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [167494] Elmer 160, DDS
Message-ID: <001001c3ef86\$531902b0\$c1770744@wd6fddstssz5sg>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hello to the group,

All of a sudden, the voltage regulator on my DDS is getting very hot, not warm.. all was ok a few days ago.. and now I notice when its on, it is very hot.. input Voltage is still the same,(11.98) and the output of the regulator is between , 4.99 & 5.00 V... any ideas??

Thanks, Rich

Date: Mon, 9 Feb 2004 19:34:48 -0800 (PST)
From: Lee Boulineau <n4mvl@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [167495] Wooo Hooo!!!! Hit the daily double!!!!
Message-ID: <20040210033448.48054.qmail@web21201.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Checking the mailbox after work.....let's
see.....bill.....bill.....@#\$\$%^ bill!!!
..... You've just won \$100,000,000we got the
cheapest life insurance.....OH YEAH!!! Homebrewer
#2!!!! and what's this - W00000 H0000!!!! A SWR/Power
meter kit from the "Melt Solder" Stud' Steve Weber
(KD1JV to anyone who's name -challenged)!!!!!! It's a
perfecta!!!!!!

72 de N4MVL Lee

Do you Yahoo!?
Yahoo! Finance: Get your refund fast by filing online.
<http://taxes.yahoo.com/filing.html>

Date: Mon, 09 Feb 2004 22:32:14 -0500
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: Ed Tanton <n4xy@earthlink.net>
Cc: QRP-L <qrp-l@lehigh.edu>, noga <nogaqrp@mailman.qth.net>
Subject: [167496] Re: [NoGaQRP] Interesting HF (!!!) Active Filter
Message-ID: <5.0.2.1.2.20040209222303.0318def8@pop.mindspring.com>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Ed,

A little high on the low end for the traditional RC active audio filter, but might be interesting to look at for an IF filter. Doesn't look like the skirts are very sharp, though? In the datasheet, it shows a 4th order Butterworth 10MHz bandpass, with -3dB points about 2MHz wide. Looks like image rejection for a 20M signal would only be about -30dB in that filter... Maybe two in a row?

72 de Mike, K04WX

At 08:12 PM 2/9/2004 -0500, Ed Tanton wrote:

>I was just cruising around the 'net, and followed up on an email 'What's
>New at LTC' I received earlier today. One thing I ran into bears
>investigation: The LT1568 Very Low Noise, High Frequency Active RC,
>Filter Building Block. Up to 10MHz (yes Virginia: 10MHz) Center Frequency,
>and with unequal freq set resistors, up to 10MHz Cutoff Freq.

>

>You can find the datasheet at:

><<http://www.linear.com/prod/datasheet.html?datasheet=963>> .

>

>It is not DESIGNED for the kind of narrow bandpass filters we like, but
>their Design Guide WILL still calculate the values for, say, a 7050 kHz
>4th order BPF with a 3dB BW of 500Hz. It warns you the IC might not work
>with the values, but until I can try one and see it fail miserably (the
>misery would be all mine) I won't KNOW whether it flies or not. All sorts
>of IF filtering certainly come to mind.

>

>72/73 Ed Tanton N4XY <n4xy@earthlink.net>

>

>Ed Tanton N4XY

>189 Pioneer Trail

>Marietta, GA 30068-3466

>

>website: <http://www.n4xy.com>

>

>All emails <IN> & <OUT> checked by

>Norton AntiVirus with AutoProtect

>

>LM: ARRL QCWA AMSAT & INDEXA;

>SEDXC NCDXA GACW QRP-ARCI

>OK-QRP QRP-L #758 K2 (FT) #00057

>

>-----

>"He that gives up a little liberty to gain

>temporary security will lose both and

>deserve neither".

>--Benjamin Franklin
>
>"Suppose you were an idiot ...
>and suppose you were a member of
>Congress... but I repeat myself."
>--Mark Twain
>-----
>
>
>-----
>NoGaQRP mailing list
>NoGaQRP@mailman.qth.net
><http://mailman.qth.net/mailman/listinfo/nogaqrp>

Date: Mon, 09 Feb 2004 22:38:44 -0500
From: Hank Kohl K8DD <k8dd@arrl.net>
To: payner1@strato.net,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [167497] Re: Homebrewer 2
Message-ID: <6.0.3.0.2.20040209223759.0490bd88@mail.arenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 2/9/2004 09:21 PM, Randall M.Payne wrote:

>Am I the only one in the country who hasn't received Homebrewer #2? I
>understand the delay in publishing, but the delay in mailing seems to be
>excessive.
>Randy K4EZM

Nope, you're not the only one.
That's the way it is with bulk mailing.
73 Hank K8DD

Date: Mon, 9 Feb 2004 21:45:38 -0600
From: "George, W5YR" <w5yr@att.net>
To: "John J. McDonough" <wb8rcr@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [167498] Re: Useful Oscilloscope
Message-ID: <00c101c3ef88\$5ac07960\$16014b0c@PS>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have and greatly enjoy using a Tektronix 465B 100 MHz scope. Very fancy with lots of features.

I also have a Goldstar 20 MHz dual-channel scope which I use for monitoring all audio in the station and the envelope of all outgoing r-f signals.

I find the Goldstar to be more than adequate for envelope monitoring of CW, SSB, PSK31, etc. The frequency response is somewhat better than the specs would predict. Keep in mind that in this case the -3 dB response point is about 20 MHz. However, I can see and synch a 30 MHz sine wave with this scope at a respectable image size on the CRT and adequate brightness..

The 645B, refurbished and calibrated with NIST-traceable standards, cost \$1K several years ago. The little Goldstar cost about \$300 and works every day as long as the rigs are on. It has been a very worthwhile investment and finds wide application in the shack despite its relatively low frequency response and limited triggering capabilities.

73, George W5YR
w5yr@att.net

----- Original Message -----

From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, February 09, 2004 2:50 PM
Subject: Re: Useful Oscilloscope

> ANY oscilloscope is better than no oscilloscope, but for HF work you want
> at least a 100 MHz scope. Remember that anything other than a perfect sine
> wave has harmonic content, and since you are often interested in the
shape,
> you would like to see some of that harmonic content. A 10 MHz scope will
> show a 10 MHz square wave as a somewhat misshapen sine wave. This scope
> will be pretty good for audio, and at least it will allow you to see a
> signal at the lower HF portion, but understand that even at 10 MHz it's
not
> going to give you much of an idea of the waveform, and at higher
> frequencies, it's going to turn everything into a sine wave of lower
> amplitude than what's actually there.
>
> Two channels is awfully nice, too. Much beyond two and you get challenged
> on keeping them straight, but there have been times I've wished for more.
>

> A lot depends on your budget, of course, and what they are asking for this
> scope. If you are just starting into homebrewing, and \$100 is a lot of
> money to you, and this scope is \$30, then I'd say - go for it. A nice 100
> MHz scope is going to probably set you back \$200 or more used, so factor
> that into your thought process. A lot of folks go for 200 MHz or higher
> scopes. The higher the frequency the better, of course, but as you go
much
> above 200 the prices start to get a little discouraging (at least for me!)

Date: Mon, 9 Feb 2004 21:53:52 -0600
From: "Craig Johnson" <cbjohns@cbjohns.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [167499] PiC-EL - New version 1.3 of PICElgen
Message-ID: <041b01c3ef89\$8033eaf0\$6201a8c0@cbjp2>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have just completed a new version (ver 1.3) of my PICElgen signal generator code for the PIC-EL and NJQRP DDS daughtercard. George Heron will be posting it on the PIC-EL web page shortly.

Brief documentation is in the header of the source code.

The new version has these improvements:

- 1) Some people have experienced a DDS start-up problem, requiring them to turn the encoder before the first DDS output is generated. I have added a fix so that this should never happen again.
- 2) I have added code to allow the user to step the frequency UP or DOWN in 1 MHz increments by using the PIC-EL pushbuttons. To move UP by 1 MHz you press and hold pushbutton PB_2 and then press and release pushbutton PB_1. Each time you press and release PB_1 (while holding PB_2) you advance by 1 MHz. Similarly, to move DOWN by 1 MHz you press and hold pushbutton PB_1 and then press and release pushbutton PB_2. Each time you press and release PB_2 (while holding PB_1) you decrease by 1 MHz. (Limits are zero and 30 MHz.)
- 3) Until now, PICElgen has used a hard-coded start-up frequency of 14025000 Hz. I moved the start-up frequency into EEPROM and made a way to save a new start-up frequency. Simply set the VFO to the frequency you want to store and then press and hold both pushbuttons PB_1 and PB_2 for at least 2 seconds. Now this frequency will be stored in EEPROM and will be used on subsequent start-ups. The default of 4025000 will be restored when the PIC is reprogrammed. of course.

Hopefully these code changes will stimulate a few more thoughts about what can be done in the PICELgen.

I am not going to add any more features. Now it is up to someone else to add some user selectable "memories". (Hint hint.) Have fun with it. Ask questions if you need help.

72,
Craig, AA0ZZ

Date: Mon, 9 Feb 2004 20:07:12 -0600
From: "Pat Armstrong" <aa7fg@gte.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [167500] OT... Need info on Gladiator QRP40-V Vertical...>
Message-ID: <000d01c3ef7a\$9a6d2a80\$287ee143@vectrav1400mt>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have an opportunity to purchase a "new in the box" Gladiator QRP40-V 16.5' vertical manufactured by W1XT... He no longer offers the vertical for sale, but it sounded interesting... Anybody have info on this antenna and or experience with it... I am looking for a stealth 40M antenna and this may fit the bill... Any help would sure be appreciated, thanks...

Pat - AA7FG, Oregon

Date: Mon, 09 Feb 2004 23:05:42 -0500
From: Garey Barrell <k4oah@mindspring.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [167501] Re: Homebrewer 2
Message-ID: <40285896.4040707@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Nothing in a little town in Georgia.

K40AH - Atlanta

On Feb 9, 2004, at 21:21, Randall M.Payne wrote:

>
>> Am I the only one in the country who hasn't received Homebrewer #2? I
>> understand the delay in publishing, but the delay in mailing seems to be
>> excessive.
>> Randy K4EZM
>>
>>
>
>

Date: Mon, 9 Feb 2004 23:13:33 EST
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [167502] Re: 17-15-10 Trap Dipole Question
Message-ID: <82.4dc2c31.2d59b46d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

With traps you have needless losses. Have you thought of trying the LATTIN
BAND Antenna cut for these bands only?

<http://www.qsl.net/k8qik/pdf/Lattin5.pdf>

Alan KB7MBI in Woodinville, WA
FISTS 5702 / ARS / Proud member of ARRL
--- --- --- --- DIT DIT

Date: Mon, 9 Feb 2004 23:14:52 -0500
From: "George Heron N2APB" <n2apb@clearviewcatv.net>
To: "NJQRP" <njqrp@njqrp.org>, "QRP-L" <qrp-l@Lehigh.EDU>
Cc: "George Heron N2APB" <n2apb@amqrp.org>
Subject: [167503] PIC-EL: Improved VFO code available
Message-ID: <013501c3ef8c\$70b277b0\$6400a8c0@n2apb1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Folks -

PICEL designer Craig AA0ZZ provided some neat improvements in his PEgen "VFO" program that runs on the PIC-EL card.

AA0ZZ describes ...

- 1) It fixes the sometimes questionable DDS startup. Mine is not failing now in any case, but I did see the problem in the past. A simple one line fix will make sure it doesn't happen again.
- 2) I have added code to use PIC-EL pushbuttons to move up and down by 1 MHz at a time. To move up by 1 MHz, you hold down PB_2 and press PB_1 briefly. Press PB_1 as many times as you want. Similarly, to move down by 1 MHz, you hold down PB_1 and press PB_2 briefly. Tap as many times as you want. Very handy.
- 3) I also added code to allow the user to change the change the DDS start-up frequency. Previously it was hard-coded to always start at the default 14025000 Hz. Now I have the startup frequency stored in EEPROM and it can be changed by dialing the frequency you want and then pressing and holding both PB_1 and PB_2 for two seconds. Holding for two seconds distinguishes it from a 1 MHz move up or down. The frequency is stored and will be used on subsequent start-ups.

We've loaded the new program zip file onto the project website and the same "VFO" link will get it for you. Also here:

<http://www.amqrp.org/elmer160/board/manual/PEgen.zip>

Enjoy!

73, George N2APB

PS: The single PDF file for the PICEL Assy & Test Manual should be ready for posting and download tomorrow.

Date: Mon, 9 Feb 2004 22:22:52 -0600
From: "Lew Paceley" <lew@paceley.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: <cbjohns@cbjohns.com>
Subject: [167504] Re: PiC-EL - New version 1.3 of PICELgen
Message-ID: <009001c3ef8d\$8cd803a0\$6501a8c0@swbell.net>
MIME-Version: 1.0

Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi Craig,
Is the encoder debouncing fixed in the new release for the production encoders? My VFO frequency jumps tens of hertz (sometimes more) every detent move. Do I have an especially poorly behaved encoder? Is this a problem left the reader? :) Thanks for the help.

72/73,
Lew
N5ZE

Date: Mon, 09 Feb 2004 23:28:03 -0500
From: Lee Mairs <lmairs@direcway.com>
To: qrp1 <qrp-1@Lehigh.EDU>
Subject: [167505] Elmer 160 PIC-EL lives but not the DDS Daughterboard
Message-ID: <03bd01c3ef8e\$49d8b800\$6702a8c0@J4>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I got my PIC-EL to perform all the tests (except the rotary encoder since I don't have it yet) without the Daughter board plugged in. The DDS Daughter board seems to check out OK with the voltage tests, and the current was about 135 ma, with 12.6 VDC applied.

However, The PIC-EL LCD showed all black whenever I tried to run the tests with the DDS card inserted in its home on the PIC-EL. Anybody got any ideas? Does the missing rotary encoder affect this (Can't see why, but I can always hope.)

73 de Lee
km4yy/8

Date: Tue, 10 Feb 2004 00:10:00 -0500
From: Steve Lawrence <Steve.Lawrence@ITWFEG.COM>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [167506] Re: Homebrewer 2
Message-ID: <0F0A04315A.E90DFE91-0N85256E36.001C01A4-85256E36.001C60BE@itwfeg.com>

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Negative in Troy, OH.

Steve
aa8af

"Randall M.Payne" <payner1@strato.net>
Sent by: owner-qrp-1@Lehigh.EDU
02/09/2004 09:21 PM
Please respond to
payner1@strato.net

To
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
cc

Subject
Homebrewer 2

Am I the only one in the country who hasn't received Homebrewer #2? I understand the delay in publishing, but the delay in mailing seems to be excessive.
Randy K4EZM

Date: Mon, 9 Feb 2004 21:20:28 -0800
From: "richqrp" <richqrp@cox.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [167507] Re: PIC-EL: Improved VFO code available
Message-ID: <000b01c3ef95\$9889d040\$c1770744@wd6fddstssz5sg>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

works as advertised

...Rich

```
> ----- Original Message -----
> From: "George Heron N2APB" <n2apb@clearviewcatv.net>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Monday, February 09, 2004 8:14 PM
> Subject: PIC-EL: Improved VFO code available
>
>
> > Hi Folks -
> >
> > PICEL designer Craig AA0ZZ provided some neat improvements in his PEgen
> > "VFO" program that runs on the PIC-EL card.
> >
> > AA0ZZ describes ...
> >
> > 1) It fixes the sometimes questionable DDS startup. Mine is not
failing
> > now in any case, but I did see the problem in the past. A simple one
line
> > fix will make sure it doesn't happen again.
> >
> > 2) I have added code to use PIC-EL pushbuttons to move up and down by 1
> MHz
> > at a time. To move up by 1 MHz, you hold down PB_2 and press PB_1
briefly.
> > Press PB_1 as many times as you want. Similarly, to move down by 1 MHz,
> you
> > hold down PB_1 and press PB_2 briefly. Tap as many times as you want.
> > Very handy.
> >
> > 3) I also added code to allow the user to change the change the DDS
> > start-up frequency. Previously it was hard-coded to always start at the
> > default 14025000 Hz. Now I have the startup frequency stored in EEPROM
> and
> > it can be changed by dialing the frequency you want and then pressing
and
> > holding both PB_1 and PB_2 for two seconds. Holding for two seconds
> > distinguishes it from a 1 MHz move up or down. The frequency is stored
and
```

> > will be used on subsequent start-ups.
> >
> > We've loaded the new program zip file onto the project website and the
> same
> > "VF0" link will get it for you. Also here:
> > <http://www.amqrp.org/elmer160/board/manual/PEgen.zip>
> >
> > Enjoy!
> >
> > 73, George N2APB
> >
> > PS: The single PDF file for the PICEL Assy & Test Manual should be ready
> for
> > posting and download tomorrow.
> >
> >
> >
> >
>

Date: Mon, 09 Feb 2004 21:50:40 -0800
From: Wayne Burdick <n6kr@elecraft.com>
To: Elecraft <elecraft@mailman.qth.net>
Cc: qrp <qrp-1@lehigh.edu>
Subject: [167508] Elecraft K2 Mini-Manual Now Available
Message-ID: <4028711D.CF69449C@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bernie Lafreniere (N6FN) of Nifty Ham Accessories has just added a K2 Mini-Manual to his series of ham reference guides. The mini-manual provides comprehensive coverage of the K2 and its options, and is much more detailed than a quick reference card. It's organized for easy access to specific information, including operating procedures, controls, and menu entries.

Bernie's line of mini-manuals has proven very popular, and we were pleased when he offered to create one for the K2. A number of K2 owners reviewed the manual during the several months it was in development.

Printed in color and fully laminated for durability, the 24 page, 5 x 7.5 inches spiral-bound guide is sufficiently durable and compact to be kept with the radio at all times as an operating reference.

The K2 Mini-Manual and other information can be found at at
www.niftyaccessories.com.

73,
Wayne, N6KR
Eric, WA6HHQ

--

<http://www.elecrafft.com>

Date: Tue, 10 Feb 2004 08:45:56 -0000
From: "Vilhjalmur Sigurjonsson" <tf3vst@vortex.is>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [167509] RE: Homebrewer 2
Message-ID: <000001c3efb2\$4c920140\$bba8d082@IBMVilhjalmur>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

#2 arrived in TF-land last week, what a great magazine!
You shure have something to look forward to, hihi

72, de Villi, TF3VS

>Am I the only one in the country who hasn't received Homebrewer #2? I

Date: Tue, 10 Feb 2004 04:54:32 -0600
From: Chuck Carpenter <w5usj@9plus.net>
To: <qrp-1@lehigh.edu>
Subject: [167510] 17-15-10 Trap Dipole [Sharp Bend in Coax -- OUCH]
Message-ID: <3.0.2.32.20040210045432.00835850@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Being the curious sort, I took a look at the coax-trap antenna shown at the
URL below.

Nice article but...

The very sharp bend used to attach the coax feed to the antenna is likely
to be a problem. The center conductor will migrate through the insulation

and short to the shield. With any heat in the attic, it will happen sooner than later.

I would be better to make the lower part of the center insulator longer and attach the coax without bending to that longer length.

>You may have a problem with the interaction of the 17
>meter trap and the 15 meter trap but in any case here
>is a good link for a trap dipole idea. You only need
>to build two traps for 10 and 15 a wire for 17 meters
>off the end of the 15 meter trap.

<<http://users.tellurian.com/jdegood/coaxtrap/>>

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, FP #601 oo <http://www.netxqrp.org>

Date: Tue, 10 Feb 2004 07:24:53 -0500
From: Jimmy Lee <jrllaudio@bellsouth.net>
To: payner1@strato.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [167511] Re: Homebrewer 2
Message-ID: <4028CD94.C11A8BFB@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

still waiting
Jimmy

"Randall M.Payne" wrote:

> Am I the only one in the country who hasn't received Homebrewer #2? I
> understand the delay in publishing, but the delay in mailing seems to be
> excessive.
> Randy K4EZM

Date: Tue, 10 Feb 2004 08:27:14 -0500
From: Scott D Hankin <shankin@us.ibm.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [167512] PIC-EL: a warning on build order, and a request for parts
Message-ID: <0F7F0C3004.108F85E0-0N85256E36.00491BFC-85256E36.0049E7D1@us.ibm.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Howdy -

I've been working through the PIC-EL board construction, and last night I got to the point where I needed to mount the daughterboard connector. It's funny - I've build 4 projects over the past 6 months, but I don't really have much of a junk box. I was disappointed that the header needed for the daughterboard wasn't included. Hopefully Radio Shack has one.

So I considered using the alternate mounting method, mounting the included piece at a 45 degree angle to the main board. But that looks like a real tricky job, since the capacitors I installed first are really in the way.

Recommendation: If you considering using the alternate mounting method, do it first. The caps would be fairly easy to install with the connector in place, but not vice versa.

Did anyone ever find a right angle connector that would fit the DDS daughterboard?

Thanks.

- Scott AB1BP

Scott Hankin | In the beginning, there was nothing, then
IBM/Rational Software | God said, "Let there be light." And there
20 Maguire Road | was light. There was still nothing, but
Lexington, MA 02421 | you could see it a lot better.

Date: Tue, 10 Feb 2004 06:40:14 -0700 (MST)
From: Karl Larsen <k5di@zianet.com>
To: BruceAA5B@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [167513] Re: CQ VK4
Message-ID: <Pine.LNX.4.44.0402100639160.5303-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 9 Feb 2004 BruceAA5B@aol.com wrote:

> I'll be in and around Brisbane from 2/15 through 2/29. Anyone want to get
> together for a visit?

What rig are you taking and what band(s) at what time?

>
> -Bruce AA5B
>

--

- Karl Larsen k5di Las Cruces, NM Az ScQRPions -

Date: Tue, 10 Feb 2004 08:58:29 -0500
From: "Thomas Lewis" <thomas_h_lewis@msn.com>
To: payner1@strato.net, qrp-1@Lehigh.EDU
Subject: [167514] RE: Homebrewer 2
Message-ID: <BAY5-F19Vjp3b6uIU1G0001d305@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

You're not alone.

Tom K4THL

>From: "Randall M. Payne" <payner1@strato.net>
>Reply-To: payner1@strato.net
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Homebrewer 2
>Date: Mon, 09 Feb 2004 21:21:24 -0500
>
>Am I the only one in the country who hasn't received Homebrewer #2? I
>understand the delay in publishing, but the delay in mailing seems to be
>excessive.
>Randy K4EZM
>
>

Optimize your Internet experience to the max with the new MSN Premium
Internet Software. <http://click.atdmt.com/AVE/go/onm00200359ave/direct/01/>

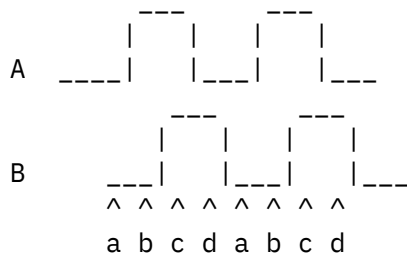
Date: Tue, 10 Feb 2004 08:00:05 -0600
From: "Craig Johnson" <cbjohns@cbjohns.com>
To: "Lew Paceley" <lew@paceley.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [167515] Re: PiC-EL - New version 1.3 of PICELgen
Message-ID: <04a301c3efde\$30216920\$6201a8c0@cbjp2>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Lew,
> Hi Craig,
> Is the encoder debouncing fixed in the new release for the production
> encoders? My VFO frequency jumps tens of hertz (sometimes more) every
> detent move. Do I have an especially poorly behaved encoder? Is this
> a problem left the reader? :) Thanks for the help.

Thanks for the very good question, Lew.

The short answer is - no, I did not fix it. The reason is that it is not really broken, but simply the nature of these mechanical encoders. I know this is going to sound suspiciously like people who try to explain software bugs by calling them "features", but let me try!

The mechanical encoders that we use in the PIC-EL has 24 detents per revolution. All encoders put out two signals, A and B, which overlap to some extent. This is hard to illustrate here, especially if you are not viewing this message with mono-spaced fonts, but here is a try.



	A	B
At point a:	0	0
At point b:	1	0
At point c:	1	1
At point d:	0	1

The two signals overlap at 90 degrees. The "transitions" that I am referring to are when either A or B goes from zero to one or from one to zero.

Note that mechanical encoders are really just two SPST switches, but in the PIC-EL circuit, through the use of pull-up resistors to +5v, we have zero to +5v "transitions".

When the two output signal signals are overlapped as described here, it is called "gray code". It means that the direction can be determined as well. This couldn't be done with a single output.

In the particular mechanical encoder that we use, there are more "transitions" than

detents. In fact, for this particular encoder, there are 24 detents in a revolution.

However, there are 15 pulses per side (A and B), which means there are 60 "transitions" per revolution that can be detected by the PIC code.

Here is where John's test suite and my PICELgen diverge. He uses an algorithm that looks at the PIC lines three times before declaring that a change occurred. The A and B values must not change for those three "looks" or else it is assumed to be noise (contact bounce), in which case it starts looking again. This is a particularly good algorithm for switches that are noisy.

In the PICELgen code, I assume the encoder is well behaved with low noise. In fact,

this is why capacitors C3 and C4 are there - they filter off the very high frequency

noise. These capacitors are not necessary when using an optical encoder that does not have "noise" from a bouncing mechanical switch. I attempt to look at every "transition". If it detects a possible A and B combination (next in sequence) to the one last seen, it adds or subtracts from the current value.

One more big difference in the test suite algorithm and PICELgen algorithm.

The test suite code does not attempt to measure the time between the pulses, to be used in acceleration. The PICELgen algorithm does. As you can imagine, this type of algorithm gets very mixed up if there are noise pulses. When you turn the encoder fast, the PICELgen count jumps more than one Hz per "transition", but when you turn it slowly, it can "see" every transition and increment/decrement by 1 Hz.

The mechanical encoder that we are using now has very good specs and uses true "gray code". (Not all do!) Its pulses are predictable so acceleration algorithms work. Again, it's not an optical encoder, but they would double the price of the kit. (I really like the DigiKey optical encoder, 102-1007-ND, but it costs \$40.)

If you put a knob on the encoder shaft you can turn it slowly and see the

transitions between the detents.

By the way, there are several ways to determine the direction. John's test suite uses a table look-up, while my PICELgen uses a different algorithm.

I think your numbers are correct, and the spec confirms this. The numbers that I was using (15 pulses each for a total of 60 transitions) is probably incorrect. Looking at the diagram above and the sequences, when you are going UP, the sequence is 00, 10, 11, 01, 00, 10, 11, 01, etc. Going DOWN, the sequence is 01, 11, 10, 00, 01, 11, 10 etc. Now, here is the algorithm:

To determine if the sequence is UP or DOWN:

- 1) Take the "Right-Bit" of any pair.
- 2) XOR it with the "Left-Bit" of the next pair in the sequence.
- 3) If the result is 1 it is UP
- 4) If the result is 0 it is DOWN.

That's it!

Now, to summarize, I didn't change the PICELgen algorithm to jump more slowly because it would simply mean I was ignoring some of the "transitions". That would also mean that the direction detection is not reliable either.

You could try the "fix" that Cla, KA0GKC, posted a couple of days ago in which he removed the detents. Else you could just put a big knob on the encoder shaft and experiment. Someday.... an optical encoder.

72,

- Craig, AA0ZZ

Date: Tue, 10 Feb 2004 06:20:10 -0800
From: "john gabbard" <johngabbard@usintouch.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [167516] HW8
Message-ID: <004601c3efe0\$fe0c2f30\$40811c0c@john>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Good Morning, I am looking for a non-working unit that can be restored.
Thanks, 73's John KF70M

Date: Tue, 10 Feb 2004 14:20:38 +0000
From: "Bill Rowlett" <kc4atu@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [167517] RE: 17-15-10 Trap Dipole
Message-ID: <Law15-F409jeEWWnHg40000e36c@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I DO NOT KNOW IF I HAVE MISSED SOMETHING HERE, BUT A 17 METER DIPOLE IS ONLY A LITTLE OVER 25 FEET IN LENGTH. SO, WHY NOT A STANDARD FAN DIPOLE FOR THE 3 BANDS AND NOT BOTHER WITH THE TRAPS. A DIPOLE OF ONLY 25 TO 26 FEET FITS IN MOST ATTICS VERY NICELY, I RUN A 44 FOOTER IN MINE.

73 BILL KC4ATU

>From: Chuck Carpenter <w5usj@9plus.net>
>Reply-To: w5usj@9plus.net
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: 17-15-10 Trap Dipole [Sharp Bend in Coax -- OUCH]
>Date: Tue, 10 Feb 2004 04:54:32 -0600
>
>Being the curious sort, I took a look at the coax-trap antenna shown at the
>URL below.
>
>Nice article but...
>
>The very sharp bend used to attach the coax feed to the antenna is likely
>to be a problem. The center conductor will migrate through the insulation
>and short to the shield. With any heat in the attic, it will happen sooner
>than later.
>
>I would be better to make the lower part of the center insulator longer and
>attach the coax without bending to that longer length.
>
>
>>You may have a problem with the interaction of the 17
>>meter trap and the 15 meter trap but in any case here
>>is a good link for a trap dipole idea. You only need
>>to build two traps for 10 and 15 a wire for 17 meters
>>off the end of the 15 meter trap.
>
><<http://users.tellurian.com/jdegood/coaxtrap/>>
>
>

>

>Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
>QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
>Zombie #759, COG #11, 6 Club #201, FP #601 oo <http://www.netxqrp.org>

Optimize your Internet experience to the max with the new MSN Premium
Internet Software. <http://click.atdmt.com/AVE/go/onm00200359ave/direct/01/>

Date: Tue, 10 Feb 2004 07:22:25 -0700
From: Howard W7ILW <howardw7ilw@earthlink.net>
To: <llachow@yahoo.com>,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [167518] Re: Homebrewer 2
Message-ID: <BC4E3731.1EF70%howardw7ilw@earthlink.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Not in Prescott AZ yet.

Howard - W7ILW - Prescott, AZ
Ex - W8FDK - RIG: multiPIG + #7
ANT: 260 FT center fed @ 60 FT

Date: Tue, 10 Feb 2004 08:32:33 -0600
From: "Lew Paceley" <lew@paceley.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: <lmairs@direcway.com>
Subject: [167519] Re: Elmer 160 PIC-EL lives but not the DDS Daughterboard
Message-ID: <003101c3efe2\$b8f95060\$6501a8c0@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi Lee,

I had a similar symptom when I was constructing my PIC-EL. I would
get trash characters on the LCD and sometimes it would go completely
dark, as in all dark block characters. It turned out to be a
grounding problem in the connector I cobbled together to mount the

DDS. Reheating the connector pins finally fixed it. You can do a quick check by connecting a jumper from the DDS daughtercard ground to the PIC-EL board ground. That's how I found it. The thing that really threw me initially were the crazy voltage readings I was getting due to the lack of a good ground reference.

Hope this gets your DDS on the air!

72/73,
Lew
N5ZE

Date: Tue, 10 Feb 2004 10:01:17 -0500
From: "Charles W3KC" <w3kc@starpower.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [167520] Re: Useful Oscilloscope
Message-ID: <001301c3efe6\$bcb682a0\$25002c42@w3kc>

You can display signals that are beyond the normal bandwidth of an inexpensive oscilloscope by building and using a mixer ahead of the 'scope. The 1993 ARRL Handbook has a schematic for a suitable and rather simple circuit in the Test Equipment and Measurements chapter.
72 de Chas W3KC

Date: Tue, 10 Feb 2004 10:00:09 -0500
From: John Sielke <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [167521] Re: DDS / SMD Solder Tip
Message-ID: <4028F1F9.90201@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

>
>
>>Not to worry about damage to that new DDS chip.
>>I just built two DDS 9850 circuits and both work using
>>the 'gob-on/wick-up technique (below).
>>
>>

>
>
>This method really works! I was dismayed at doing the 9835 DDS chip in
>the AT Sprint, but did it this way and it came out fine. Same problem
>here, always had 20/300 nearsighted vision. It helps, since when I take
>my glasses off I can see up very close quite well. Just used magnifier
>to check for shorts.

>
>
Well I must confess, it didn't work as well as I thought. I found one
pin was making intermittent connection (pin 15). So I resoldered it, but
shorted to pin 16, used some more solder wick., then had intermittent
again. (I suspect I had already lifted the circuit board trace and
broken it at this point).

To make a long story short, finally fiddling with it, I broke off the
pin. Then, in using solder wick to remove the busted chip, I lifted a
couple of those little pads on the Sprint's circuit board.

Moral: Be VERY careful! Those teeny little pins AND teeny little pads
are fragile.

John W2AGN

Date: Tue, 10 Feb 2004 08:07:23 -0700
From: Ken <kloc@commspeed.net>
To: qrp-l@lehigh.edu
Subject: [167522] Argonaut 505 help
Message-ID: <5.2.1.1.2.20040210075403.00af4118@mail.commspeed.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

Is there anyone that specializes in Argonaut repairs, besides TenTec. I
have an older Argonaut 505, s/n 02024, that was good when packed away a few
years ago. Recently pulled it out of retirement, but now has a slight
drift. ~10-50 hz very rapidly then back, on a frequent basis. Seems to
happen after it has warmed up a bit. Everything else seems to be working
fine, other than that. This is something that it did not exhibit when used
extensively years ago. If anyone knows of someone that might fit the bill,
please advise...

Thanks,

Ken - WA4MNT

Date: Tue, 10 Feb 2004 07:20:48 -0800
From: "Frank" <fking@oregonvos.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [167523] FT-817 Desk Stand
Message-ID: <004e01c3efe9\$76f10030\$e71ab1c6@D3C2ZN21>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone know of plans or suppliers of a desk stand for the FT-817? The front end of mine rests on an old eyeglass case. I would like something a little more classy.

73
Frank
AA7XA

Date: Tue, 10 Feb 2004 10:28:32 -0500 (EST)
From: <igeq100@iupui.edu>
To: Jerry Ford <benlightnd13@mchsi.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [167524] Re: Solder Lugs
Message-ID: <Pine.GS0.3.96.1040210102737.23657C-100000@jade.iupui.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, Jerry -

Mouser has them, many varieties and sizes, and reasonably priced.

72,
Rich, WB9LPU

On Mon, 9 Feb 2004, Jerry Ford wrote:

> Anybody know a good place to pick up some solder lugs cheap?????/

>
> RS doesn't carry them anymore and I'm not finding anything on e-rip.
> I see Ocean States has them listed but not at a real cheap price.
>
> Any ideas?????
>
> Thanks:
>
> 72 Jerry N0JRN
> FP # 546, 4SQR, ARS # 923, ARCI # 11049, ARRL,
> Springfield, Mo. MP + #8
> <http://home.mchsi.com/~n0jrn>
>
>
>
>

Date: Tue, 10 Feb 2004 09:27:52 -0600
From: "Don Foster" <k5kw@azalea.net>
To: <qrp-1@Lehigh.EDU>
Subject: [167525] FS - DSW Rigs, Ten Tec Amp, SMK-1
Message-ID: <001b01c3efea\$7a25f700\$09daab41@21byq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Buildaholic must thin the herd. All are ready for QSO's.

Immaculate original DSW-30 and DSW-20 in SWL's blue anodized cases. Manuals included. \$ 100 each, shipped CONUS.

Norcal SMK-1 in light blue & cream case. \$ 25 shipped CONUS.

Factory-built Ten Tec Model 405 amplifier in good condition, with manual. One to Two watts in, 45-50 watts out. Covers 80, 40, 20, 15, 12 & 10 meters. \$ 160 shipped CONUS.

Please contact off reflector. E-mail or phone 918-478-3334
8:00 a.m. to 10:00 p.m. CST.

Thanks es 72's.

Don, K5KW
Fort Gibson, Oklahoma

Date: Tue, 10 Feb 2004 15:48:46 GMT
From: ultrafixedwing@juno.com
To: qrp-l@Lehigh.EDU
Subject: [167526] Re: Argonaut 505 help
Message-ID: <20040210.074849.26542.514521@webmail01.nyc.unttd.com>
Mime-Version: 1.0
Content-Type: text/plain

I've always had good luck with TenTec. One time they didn't even charge me.
They'll give you an estimate.

Paul
KS2S

The best thing to hit the Internet in years - Juno SpeedBand!
Surf the Web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Tue, 10 Feb 2004 07:50:56 -0800
From: "William Phinizy" <k6whp@verizon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [167527] Re: 17-15-10 Trap Dipole Question
Message-ID: <004a01c3efed\$ad4a6f50\$f964e043@sydelpgnr79gmd>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

My sincere thanks to all of the replies. To my chagrin, I found that one of our own, Dave Benson, had published an article on that very subject in QST. It is available on the ARRL web site if anyone is interested.

Additionally, Jamie Bond, offered a fine article on a trap stealth beam:

www.antennex.com/hws/ws1003/pem.pdf

Enjoy and thanks again.

72,

Bill, k6whp

Date: Tue, 10 Feb 2004 08:53:23 -0800
From: "Stephen Finch" <stevef88@msn.com>
To: <w5usj@9plus.net>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [167528] RE: 17-15-10 Trap Dipole [Sharp Bend in Coax -- OUCH]
Message-ID: <000d01c3eff6\$65ddbddd0\$010aa8c0@stephenc8hox1x>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I suggest that anyone wanting to use a coaxial dipole read the section =
on
them in Reflections II by Maxwell. In a nutshell, they are lossy,
inefficient, and a poor choice for an antenna.

I built one and measured it with an MFJ-269 analyzer, and YEP =96 lossy.

Steve
AI=D8W

-----Original Message-----
From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf =
Of
Chuck Carpenter
Sent: Tuesday, February 10, 2004 2:55 AM
To: Low Power Amateur Radio Discussion
Subject: 17-15-10 Trap Dipole [Sharp Bend in Coax -- OUCH]

Being the curious sort, I took a look at the coax-trap antenna shown at =
the
URL below.

Nice article but...

The very sharp bend used to attach the coax feed to the antenna is =
likely
to be a problem. The center conductor will migrate through the =
insulation
and short to the shield. With any heat in the attic, it will happen =
sooner

than later.

I would be better to make the lower part of the center insulator longer =
and
attach the coax without bending to that longer length.

>You may have a problem with the interaction of the 17
>meter trap and the 15 meter trap but in any case here
>is a good link for a trap dipole idea. You only need
>to build two traps for 10 and 15 a wire for 17 meters
>off the end of the 15 meter trap.

<<http://users.tellurian.com/jdegood/coaxtrap/>>

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, FP #601 oo <http://www.netxqrp.org>

Date: Tue, 10 Feb 2004 07:54:27 -0800 (PST)
From: Shawn Qrp <shawnqrp@yahoo.com>
To: qrp-l@Lehigh.EDU
Subject: [167529] Soldering Technique Question
Message-ID: <20040210155427.1943.qmail@web21407.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Greetings all

As you'll all guess by my question I am new to
building this stuff myself, and want to improve.

I received my SW+ kit yesterday in the mail (yeah).
In reading throught the directions, he outlines a
technique to getting your parts on the board. He
recommends that you put the parts into the board with
full length leads, then bend them out on the bottom
side of the board just a little to hold them in place.
Although the directions don't go into further detail,
I'm assuming that once you have soldered the part in,
you clip the extra leads off.

Previously I have received information that you should try not to have any of those little short nubs sticking out, as the "spikes" allow signal to escape the circuit ?

I just built a PixieII kit and clipped all of the parts to length before putting them into the board, I had a real real real tough time getting them to stay in place until they were soldered.

I'd be thrilled to use this technique, just want to be sure that the resulting solder joint will be effective.

What makes me the happiest about this technique is being able to put multiple pieces on the board at a time, then soldering them all at once :-)

Thanks a ton in advance for your input.

73's
Shawn
KC0RFC

Do you Yahoo!?
Yahoo! Finance: Get your refund fast by filing online.
<http://taxes.yahoo.com/filing.html>

Date: Tue, 10 Feb 2004 11:36:18 -0500
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [167530] Removing oxidation on copper wires
Message-ID: <40290882.8C6394E5@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi there,

I know you can use toilet bowl cleaner (containing hydrochloric acid) to get rid of the oxidation on copper wire, but I wonder if there's a less poisonous way to do this. Anyone got any ideas?

73,
--Alex KR1ST

<http://www.kr1st.com>

Date: Tue, 10 Feb 2004 10:39:38 -0600 (CST)
From: Dale Botkin <dale@botkin.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [167531] Re: Soldering Technique Question
Message-ID: <Pine.LNX.4.33.0402101031080.9497-1000000@madmax.botkin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 10 Feb 2004, Shawn Qrp wrote:

> I received my SW+ kit yesterday in the mail (yeah).
> In reading throught the directions, he outlines a
> technique to getting your parts on the board. He
> recommends that you put the parts into the board with
> full length leads, then bend them out on the bottom
> side of the board just a little to hold them in place.
> Althought the directions don't go into further detail,
> I'm assuming that once you have soldered the part in,
> you clip the extra leads off.

You are correct. There are also special snips that will cut the lead and crimp the end so the part will stay in place while you solder. I have a pair, and they work well, but I still only use them about half the time. The rest of the time I use the method you describe.

> Previously I have received information that you should
> try not to have any of those little short nubs sticking
> out, as the "spikes" allow signal to escape the circuit ?

Ummm... nope. If you clip them off close to the board you're good. The primary purpose is to keep things from shorting. A little extra lead on teh bottom of the PCB won't "let signal escape". I think someone was pulling your leg, or is at least unfamiliar with wire-wrap construction for sure.

> I just built a PixieII kit and clipped all of the
> parts to length before putting them into the board, I
> had a real real real tough time getting them to stay
> in place until they were soldered.

Ouch. Now you know one reason you clip them AFTER soldering! 8-)

> I'd be thrilled to use this technique, just want to be
> sure that the resulting solder joint will be

> effective.

It will.

> What makes me the happiest about this technique is
> being able to put multiple pieces on the board at a
> time, then soldering them all at once :-)

It's a good idea and saves a lot of time. I typically do all resistors, then all caps, then all transistors, etc. If there are more than a dozen or so I'll pick a section of the board and just do a batch at a time. Hint: Count the leads before starting to solder, so you'll know if there are some you haven't hit yet. And when you're done soldering, or think you are, hold the board up to the light, bottom side toward you, and see if you missed any. You'll see a little point of light shining through any holes you missed.

73,

Dale - n0xas

--

It's a thankless job, but I've got a lot of Karma to burn off.

The NEW Super PicoKeyer offers speed control by pot OR menu!

Check <http://www.hamgadgets.com> for news.

Date: Tue, 10 Feb 2004 11:40:30 -0500

From: Ed Tanton <n4xy@earthlink.net>

To: "Michael C. Boatright" <ko4wx@mindspring.com>,
noga <nogaqrp@mailman.qth.net>, QRP-L <qrp-l@lehigh.edu>

Subject: [167532] Re: [NoGaQRP] Interesting HF (!!!) Active Filter

Message-ID: <6.0.3.0.2.20040210113428.01e31d18@pop.earthlink.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

It may very well be useless for 'our' kind of filters Mike-it is certainly intended to be a modern day equivalent of wideband FM filters-probably most likely in a cell phone. But like I said, until it is tried in more narrow modes, you just never know. I'm not at all surprised to see something like this... with all these single-supply, low-noise, ultra-fast op amps they've been building lately, something like this on one substrate had to show up sooner or later.

72/73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY

189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."
--Mark Twain

Date: Tue, 10 Feb 2004 11:41:30 -0500
From: "Nick Foster" <nfoster@bluefinrobotics.com>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [167533] RE: Soldering Technique Question
Message-ID: <001501c3eff4\$bbfe26c0\$9000a8c0@PECKERHEAD>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

That's fine. Put them in full length, solder the joint, and use diagonal cutters to clip off the excess.

I don't know what this "escaping signal" business is -- you won't have to worry about things like that until far into the UHF range.

--nick

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf

Of Shawn Qrp
Sent: Tuesday, February 10, 2004 10:54 AM
To: Low Power Amateur Radio Discussion
Subject: Soldering Technique Question

Greetings all

As you'll all guess by my question I am new to building this stuff myself, and want to improve.

I received my SW+ kit yesterday in the mail (yeah). In reading through the directions, he outlines a technique to getting your parts on the board. He recommends that you put the parts into the board with full length leads, then bend them out on the bottom side of the board just a little to hold them in place. Although the directions don't go into further detail, I'm assuming that once you have soldered the part in, you clip the extra leads off.

Previously I have received information that you should try not to have any of those little short nubs sticking out, as the "spikes" allow signal to escape the circuit ?

I just built a PixieII kit and clipped all of the parts to length before putting them into the board, I had a real real real tough time getting them to stay in place until they were soldered.

I'd be thrilled to use this technique, just want to be sure that the resulting solder joint will be effective.

What makes me the happiest about this technique is being able to put multiple pieces on the board at a time, then soldering them all at once :-)

Thanks a ton in advance for your input.

73's
Shawn
KCØRFC

Do you Yahoo!?
Yahoo! Finance: Get your refund fast by filing online.
<http://taxes.yahoo.com/filing.html>

Date: Tue, 10 Feb 2004 08:52:41 -0800
From: "Bill Jones" <kd7s@psnw.com>
To: <ARDUJENSKI@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [167534] Re: 17-15-10 Trap Dipole Question - Lattin Antenna
Message-ID: <006b01c3eff6\$4ead9d60\$58c13542@RadioRoom>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Alan and all,

I have spent a considerable amount of time trying to model the Lattin antenna using MMANA. So far I have been unsuccessful getting more than two bands to work. Every time you add a decoupling stub it throws all the other measurements completely out of kilter. I even did a search for the original patent information, thinking I missed something, but it didn't help. Finally, the drawing from G3YCC is incorrect. The feedline should be connected to the *top* wire, not the first set of stubs.

I would love to hear from anyone who has actually built a Lattin antenna and made it work. The theory is nice but I've never been able to achieve acceptable results.

----- Original Message -----
From: <ARDUJENSKI@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: Re: 17-15-10 Trap Dipole Question

> With traps you have needless losses. Have you thought of trying the LATTIN
> BAND Antenna cut for these bands only?

Date: Tue, 10 Feb 2004 16:55:03 GMT
From: ultrafixedwing@juno.com
To: qrp-1@Lehigh.EDU
Subject: [167535] Re: Removing oxidation on copper wires
Message-ID: <20040210.085526.26542.514863@webmail01.nyc.unttd.com>
Mime-Version: 1.0
Content-Type: text/plain

When I worked in a radio station (WJDM in Elizabeth), we used to clean the radials with muriatic acid before we soldered them. Just dip 'em in and wipe 'em off.

Paul
KS2S

The best thing to hit the Internet in years - Juno SpeedBand!
Surf the Web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Tue, 10 Feb 2004 09:46:00 -0700
From: "Paul Ermisch" <paul@ermisch.com>
To: <fkking@oregonvos.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [167536] RE: FT-817 Desk Stand
Message-ID: <NHBBIMAFPBCKANGJGAPDOEDKDCAA.paul@ermisch.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

<www.w4rt.com>

Not exactly a desk stand but looks better than what you're using.

Paul NN0C

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [<mailto:owner-qrp-l@Lehigh.EDU>] On Behalf Of Frank
Sent: Tuesday, February 10, 2004 8:21 AM
To: Low Power Amateur Radio Discussion
Subject: FT-817 Desk Stand

Anyone know of plans or suppliers of a desk stand for the FT-817? The front end of mine rests on an old eyeglass case. I would like something a little more classy.

73
Frank
AA7XA

Date: Tue, 10 Feb 2004 11:58:32 -0500
From: Ed Tanton <n4xy@earthlink.net>
To: noga <nogaqrp@mailman.qth.net>, QRP-L <qrp-l@lehigh.edu>
Subject: [167537] OT: Georgia Travel Links
Message-ID: <6.0.3.0.2.20040210114858.01daeec0@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I was looking for Big Chicken links, and found several very interesting links for places and things to see in Georgia:

- 1) The General Locomotive in Kennessaw, GA
<<http://ngeorgia.com/people/thegeneral.html>>
- 2) Roadside Georgia with many places and links: <<http://roadsidegeorgia.com/>>
- 3) Roadside America's Georgia Big Chicken:
<<http://www.roadsideamerica.com/attract/GAMARchicken.html>>
- 4) General information about Georgia: <<http://www.georgia.com/>>
and finally:
- 5) Some places and things from my QTH: Marietta:
<<http://www.mariettasquare.com/>>

I might add that the NoGaQRP Club is always happy to see visitors to our great state, and if you cannot make it to a meeting, at least have lunch with us as you're passing through!

72/73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."
--Mark Twain

Date: Tue, 10 Feb 2004 12:00:11 -0500
From: Ed Tanton <n4xy@earthlink.net>
To: kr1st@amsat.org, QRP-L <qrp-l@lehigh.edu>
Subject: [167538] Re: Removing oxidation on copper wires
Message-ID: <6.0.3.0.2.20040210115843.01dda808@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I would use a Dremel with a brass wire brush Alex.

At 11:36 AM 2/10/2004, you wrote:

>Hi there,
>
>I know you can use toilet bowl cleaner (containing hydrochloric acid) to
>get rid of the oxidation on copper wire, but I wonder if there's a less
>poisonous way to do this. Anyone got any ideas?
>
>73,
>--Alex KR1ST
><http://www.kr1st.com>

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."
--Mark Twain

Date: Tue, 10 Feb 2004 09:16:50 -0800
From: "Lee Hopper" <leehopp@msn.com>
To: "Posting to the list QRP-L" <qrp-l@Lehigh.EDU>
Subject: [167539] OT: Rat Crumbs & Blueberry Muffins
Message-ID: <BAY4-DAV124Id1QDBSg00042552@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

See latest pix fr Mars at
<<http://marsrovers.jpl.nasa.gov/gallery/press/spirit/>>

73 -

Lee Hopper, NB7F

Date: Tue, 10 Feb 2004 09:30:46 -0800 (PST)
From: Tom Severt <n2uhc@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [167540] Re: Soldering Technique Question
Message-ID: <20040210173046.383.qmail@web9601.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- Shawn Qrp <shawnqrp@yahoo.com> wrote:

> In reading throught the directions, he outlines a
> technique to getting your parts on the board. He
> recommends that you put the parts into the board

> with
> full length leads, then bend them out on the bottom
> side of the board just a little to hold them in
> place.
> Although the directions don't go into further
> detail,
> I'm assuming that once you have soldered the part
> in,
> you clip the extra leads off.
>
> Previously I have received information that you
> should
> try not to have any of those little short nubs
> sticking out, as the "spikes" allow signal to escape
> the circuit ?

Yes, it's far easier to solder through-hole circuitry by sticking the leads through, then bending the leads outward to hold the component in place for soldering.

I haven't heard of "signal escaping the circuit" through the spikes, but as a rule of thumb you should always try to clip them as short as possible. If the leads are too long, they may make contact with ground when you place the board into an enclosure. On the other hand, though, I've got an old junk CB that has very long leads sticking out the back of the board.

I've built three SW+ radios using the technique described above & didn't have any problems.

=====

Tom Severt N2UHC
Frontenac, KS
<http://www.geocities.com/n2uhc>

Do you Yahoo!?

Yahoo! Finance: Get your refund fast by filing online.
<http://taxes.yahoo.com/filing.html>

Date: Tue, 10 Feb 2004 13:23:07 -0500
From: Lee Mairs <lmairs@direcway.com>
To: Lew Paceley <lew@paceley.com> ,

Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [167541] Re: Elmer 160 PIC-EL lives but not the DDS Daughterboard
Message-ID: <015001c3f002\$f8ebce30\$6702a8c0@J4>
MIME-version: 1.0
Content-type: text/plain; charset=Windows-1252
Content-transfer-encoding: 7BIT

Great call, Lew!

Some how I'd not soldered pin 5 on the right angle connector to the DDS card. Funny thing (senior moments??) I'd missed soldering the V+ pin to the IC socket for the PIC which I had caught during the DVM checks. While performing the similar checks on the DDS, I hooked up ground through the ground test point on the card.

Soldered up pin 5, and now the PIC-EL looks as tho it is working. But I still haven't any hard evidence that the DDS is functioning other than the PIC-EL cycles through its tests. Can't here it on the station receiver, but it can't here anything anywhere today. SU suspect the Carolina Windom 160 doesn't like being frozen in the snow bank!

Whoever thought up using these loops of scrap wire as test points on the NJQRP boards deserves a congrats. It is a really nifty way to trouble shoot a project without having to worry about the connector shorting out adjacent pins etc.

72 de Lee
km4yy/8

----- Original Message -----

From: "Lew Paceley" <lew@paceley.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, February 10, 2004 9:32 AM
Subject: Re: Elmer 160 PIC-EL lives but not the DDS Daughterboard

> Hi Lee,
> I had a similar symptom when I was constructing my PIC-EL. I would
> get trash characters on the LCD and sometimes it would go completely
> dark, as in all dark block characters. It turned out to be a
> grounding problem in the connector I cobbled together to mount the
> DDS. Reheating the connector pins finally fixed it. You can do a
> quick check by connecting a jumper from the DDS daughtercard ground to
> the PIC-EL board ground. That's how I found it. The thing that
> really threw me initially were the crazy voltage readings I was
> getting due to the lack of a good ground reference.
>

> Hope this gets your DDS on the air!

>

> 72/73,

> *Lew*

> N5ZE

>

>

>

Date: Tue, 10 Feb 2004 10:38:36 -0800 (PST)

From: Bob KB2FEL <kb2fel@yahoo.com>

To: shawnqrp@yahoo.com,

Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [167542] Re: Soldering Technique Question

Message-ID: <20040210183836.50209.qmail@web60508.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

--- Shawn Qrp <shawnqrp@yahoo.com> wrote:

> Greetings all

>

> As you'll all guess by my question I am new to
> building this stuff myself, and want to improve.

>

> I received my SW+ kit yesterday in the mail (yeah
>).

> In reading through the directions, he outlines a
> technique to getting your parts on the board. He
> recommends that you put the parts into the board
> with
> full length leads, then bend them out on the bottom
> side of the board just a little to hold them in
> place.

> Although the directions don't go into further
> detail,

> I'm assuming that once you have soldered the part
> in,

> you clip the extra leads off.

>

That is correct after soldering the component snip the lead off as close to the board as possible. I would also suggest not bending the leads at a full 90 but instead just put enough outward pressure on the leads to hold them in place. In doing this it will make it

very easy for later removal of a part.

> Previously I have received information that you
> should
> try not to have any of those little short nubs
> sticking out, as the "spikes" allow signal to escape
> the circuit ?

A sharp edge in any RF ckt will allow stray RF to focus at the tip or point of that edge. It is good practice to solder so you end with smooth rounded edges. This is more important in high power and or in higher freq. You should not have a problem with low freq and low QRP power levels.

72

Bob

KB2FEL

<<http://www.geocities.com/kb2fel/kb2felqrp.html>>

Do you Yahoo!?

Yahoo! Finance: Get your refund fast by filing online.

<http://taxes.yahoo.com/filing.html>

Date: Tue, 10 Feb 2004 10:40:23 -0800

From: Bob Nielsen <nielsen@oz.net>

To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [167543] Re: Homebrewer 2

Message-ID: <20040210184023.GB14551@bob>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Disposition: inline

On Tue, Feb 10, 2004 at 07:22:25AM -0700, Howard W7ILW wrote:

> Not in Prescott AZ yet.

>

I received mine on Monday.

--

Bob Nielsen, N7XY

n7xy (at) n7xy.net

Bainbridge Island, WA

<http://www.n7xy.net>

Date: Tue, 10 Feb 2004 13:52:39 -0500
From: "Brian Riley (maillist)" <n1bq_list@wulfden.org>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [167544] Elmer 160 - Da Pickel is back!
Message-ID: <BC4E92A7.1F07C%n1bq_list@wulfden.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

One incorrectly placed resistor, a blown regulator, and a replacement 16F84A (blown by regulator), and I am back up and running on my PIC-El, Thanks to George, N2APB for the 16F84A, it's all back on track, the funky PB3/LED3 thing is even working right now.

Back off to the soldering station to put a heard on the board for the DDS and it will be all done, later I will try the new test program and the updated VFO.

cheers ... 73 de brian, n1bq

Date: Tue, 10 Feb 2004 14:26:56 -0500
From: Jimmy Lee <jr1audio@bellsouth.net>
To: nielsen@oz.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [167545] Re: Homebrewer 2
Message-ID: <40293080.F97C7CA4@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Got mine today.
Jimmy

Bob Nielsen wrote:

> On Tue, Feb 10, 2004 at 07:22:25AM -0700, Howard W7ILW wrote:
> > Not in Prescott AZ yet.
> >
>

> I received mine on Monday.

>

> --

> Bob Nielsen, N7XY

n7xy (at) n7xy.net

> Bainbridge Island, WA

http://www.n7xy.net

>

Date: Tue, 10 Feb 2004 14:22:39 -0500 (EST)

From: "Thom R. Lacosta" <lacosta@bcpl.net>

To: John Sielke <jsielke@pobox.com>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [167546] Re: Buy items from people you don't know

Message-ID: <Pine.GS0.4.58.0402101419130.14821@mail>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 9 Feb 2004, John Sielke wrote:

> Just an update on this. Talked to my Credit card folks. The rep was
> familiar with Paypal, and said it is a waste of time to go through their
> complaint process. Just go the the Credit Card company, and they will
> cancel the Payment, and leave Paypal to deal with the seller, as it
> should be.

Well, I have a dispute going on....the bank has tried twice to get the
money back....I understand that in situations like this it could take
years for the credit card company to resolve the dispute.

The other thing you need to be prepared for is PayPal suspending your
account when you protest....and they won't let you close it.

And if you have two paypal accounts, mysterious things may happen to the
one not involved in the dispute.

Thom

<http://www.baltimorehon.com/>

Home of the Baltimore Lexicon

<http://www.tlchost.net/>

Web Hosting as low as 3.49/month

Date: Tue, 10 Feb 2004 15:09:10 -0500

From: "Brian Riley (maillist)" <n1bq_list@wulfden.org>

To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>

Subject: [167547] Elmer 160 PIC-EL DDS Success - a caution
Message-ID: <BC4EA496.1D195%n1bq_list@wulfden.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

I scavenged a header from another yet-to-be-done kit and mounted the DDS daughter card. It seemed OK, but I wasn't really sure For me anyway, I found I needed to cut two 4-6" pieces of hookup wire and strip one end on each and stuff em in the two BNC connectors on the Pickel and my K-1, otherwise the signal wasn't heard ... So I did and was rewarded with a nice clear tone.

So N1BQ's Pickle is 100% A-OK! yeah!

Cheers ... 73 de brian, n1bq

Date: Tue, 10 Feb 2004 15:19:41 -0500
From: John Sielke <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [167548] Re: Buy items from people you don't know
Message-ID: <40293CDD.2010405@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

One more good reason NOT to give Paypal your Bank account number, and NEVER keep a balance in your Paypal account. I have heard the horror stories, too.

John W2AGN

Date: Tue, 10 Feb 2004 15:32:21 -0500
From: "kennymac" <killmodell@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [167549] PIC EL ELMER 160 question lesson 6
Message-ID: <00ed01c3f014\$fc399470\$9b48b783@utad.utoledo.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I have assembled and run 6c and it works fine and I have adjusted the timing

and that all works very well.

I do have a question.

In this code...

```
XMTR equ H'07'
```

```
    cblock H'20'
```

```
    Output
```

```
    L1
```

```
    L2
```

```
endc
```

When I look for XMTR in the WATCH window it says that XMTR is in restricted memory and won't show the value...???

Also this program toggles Output with a x80 (d 128) which I don't seem to understand why it wouldn't toggle a H'07' ... which would be a 00000111...

XMTR equ H'07' (which means XMTR = 00000111) right???

or is that the 7th bit (from 0 to 7)

I played with the program and determined that H '07' is referring to bit #7 or the high order bit. But my reference shows that H'07' is hexadecimal 7 which also is decimal 7. So why isn't a 07 showing up when toggled in Output instead of an 80...

Sorry for the stupid ?

Ken

KC8YYC

Date: Tue, 10 Feb 2004 12:37:51 -0800

From: "Donald Jacob" <djacob1@socal.rr.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [167550] Re: Homebrewer 2

Message-ID: <002101c3f015\$c26e64e0\$6501a8c0@socal.rr.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Not in this part of Los Angeles yet :-(

Don WB5EKU
DM04sg
IRLP Node 3830

Date: Tue, 10 Feb 2004 15:22:08 -0600
From: <k6whp@verizon.net>
To: <qrp-1@Lehigh.EDU>
Subject: [167551] RE: 17-15-10 Trap Dipole
Message-ID: <20040210212208.YLPA26012.out010.verizon.net@outgoing.verizon.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Bill,

This probably falls into the category "Ask me the time of day and I'll tell you how to build a watch" but..

What occasioned the question was an attic fan dipole (necessitated by the condo Nazis out here on the left coast) that I constructed several years earlier. The antenna was a fortunate association of the 40-30- 20-15-10 meter bands. To this day I do not know how I was able to get so many bands on that antenna and *not* have them interact. But I was not going to argue with success. Besides, it has pulled in Russia, a number of European stations, and goodness knows how many stations out here in the Pacific.

A friend of mine who lives in Texas wanted to set up a sked on 17 meters. So, I shinnied up to the attic and added a couple of pieces of 13' wire to the mix..

..and then things went South in a hurry; it was the straw that broke the camel's back. Also, the add insult to injury, now my 10-meter antenna misbehaves even with the 17 meter segments removed.

Consequently, I decided to separate the high bands from the low bands but was certain to get the interaction between 17 and 15 meters described by some of the answers. So I figured, why not try a trap dipole; so I looked all over the internet and researched my books at home; so I put the

question on QRP-1..

..yadda..yadda..yadda..yadda..

Besides, I always wanted to build a trap antenna (even though they are lossy). Thanks,

Bill, k6whp

I DO NOT KNOW IF I HAVE MISSED SOMETHING HERE, BUT A 17 METER DIPOLE IS ONLY A LITTLE OVER 25 FEET IN LENGTH. SO, WHY NOT A STANDARD FAN DIPOLE FOR THE 3 BANDS AND NOT BOTHER WITH THE TRAPS. A DIPOLE OF ONLY 25 TO 26 FEET FITS IN MOST ATTICS VERY NICELY, I RUN A 44 FOOTER IN MINE.

73 BILL KC4ATU

Date: Tue, 10 Feb 2004 15:27:41 -0600
From: "Don Foster" <k5kw@azalea.net>
To: <qrp-1@Lehigh.EDU>
Subject: [167552] FS - DSW-20 and Ten Tec 405 Amp
Message-ID: <004a01c3f01c\$be4d66c0\$4dd9ab41@21byq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

The DSW-30 and the SMK-1 among the offerings in my initial posting are spoken for. Still available are:

Immaculate original DSW-20 in blue anodized case with manual. \$ 100 shipped, CONUS.

Ten Tec Model 405 Amplifier in good condition, with manual. Pwr in 1 to 2 watts gives 45 to 50 watts out. with power plug/cord and manual. Pictures available. \$ 160 shipped, CONUS.

Please contact off reflector. E-mail or phone 918-478-3334.

Thanks & 72,

Don, K5KW
Fort Gibson, OK

Date: Tue, 10 Feb 2004 16:44:02 -0500
From: Lee Mairs <lairs@direcway.com>
To: qrp1 <qrp-1@Lehigh.EDU>
Cc: Al Poland <atpoland@verizon.net>
Subject: [167553] PIC-EL and DDS Now Working
Message-ID: <002301c3f01f\$061cf7c0\$6702a8c0@J4>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

After a full day of pulling my hair out, I finally screamed the right incantations to the Gods of QRP and Home Brewing. That, coupled with another 10 minutes devoted to once again "swabbing out" the miserable pins on the DDS chip with Solder Wick, resulted in signals in the station receiver as the PIC-EL did its thing.

Now, unless aforementioned Gods were hanging around my mountain ready to tune up their QRO rigs on 7.040 etc. as I ran the last test, my PIC-EL and DDS card are up and running. Oh yeah, I still need to get a rotary encoder chip installed.

Now the next time I want to simulate jamming bamboo shards under my fingernails, I can always start building my second DDS card...

Boy, do I love these NJQRP club kits! Seriously! What exhilaration to finally beat the thing into submission.

73 de Lee
KM4YY/8

Date: Tue, 10 Feb 2004 22:05:37 +0000
From: "Terry Permenter" <top@whidbey.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [167554] Re: Homebrewer 2
Message-ID: <E1Aqg00-0005As-Ra@mail5.whidbey.net>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Well worth the wait! This is yet another first rate widget (er, issue) from one of the best widget producers (er, clubs) around!

Kudos to all even remotely involved in the production - its first rate!

Thanks! 72, Terry K7OI

On 2/10/2004, "Donald Jacob" <djacob1@socal.rr.com> wrote:

>Not in this part of Los Angeles yet :-(

Date: Tue, 10 Feb 2004 17:18:04 -0500
From: "carl seyersdahl" <carlseye@tampabay.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [167555] Amq2
Message-ID: <00af01c3f023\$c131e4e0\$573dca44@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

AMQ TWO turned up in cntrl . Fl. 02/10 !!!!!!
thanks. !!!!
carl / kz5ca

Date: Tue, 10 Feb 2004 17:27:09 -0500
From: John Sielke <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [167556] Re: Homebrewer 2
Message-ID: <40295ABD.4040005@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

>

>

>Well worth the wait! This is yet another first rate widget (er, issue)
>from one of the best widget producers (er, clubs) around!

>

>

OK, just so we have our hypothetical widgets right. Homebrewer is NOT a

widget. The BLT, the Pic-El, etc, those are widgets. The Homebrewer is more like a Stockholder's Report.

Of course, this is all theoretical and hypothetical and make-believe anyway.

I even received a copy of Homebrewer #2.

John W2AGN

Date: Tue, 10 Feb 2004 15:30:54 -0700
From: Ken <kloc@commspeed.net>
To: qrp-l@lehigh.edu
Subject: [167557] Argonaut fixed...:))
Message-ID: <5.2.1.1.2.20040210151849.03495928@mail.commspeed.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

Thanks to all for your comments and suggestions. The bug came down to the control board. I cleaned the pins and re-seated it...problem solved. TenTec did say that if the voltage on the control board, pin #3 (8-9vdc) varied at all, it could cause the same problem, but mine was steady. QRP-L is well worth the subscription price...:)

Also, Bob, AH7I had the exact cause picked.

73's, Ken WA4MNT

Date: Tue, 10 Feb 2004 16:50:56 -0600
From: "Lew Paceley" <lew@paceley.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: <killmodell@earthlink.net>
Subject: [167558] Re: PIC EL ELMER 160 question lesson 6
Message-ID: <007001c3f028\$58b32780\$6501a8c0@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"

Content-Transfer-Encoding: 7bit

Hi Ken,
Perhaps an example would help?

Assume the register/port where you are setting the bit is all zeros.

Before:

B'00000000' = B'0000 0000' = H'00'

Set the seventh bit (ex: bsf register,XMTR)

After:

B'10000000' = B'1000 0000' = H'80'

In short, you are only turning on a single bit (#7), not writing the value 7 to the register. Said differently, seven is the offset of the bit in the register, not the data written, which is a one.

Make sense?

72/73,
Lew
N5ZE

Date: Tue, 10 Feb 2004 16:51:46 -0600 (CST)
From: Dale Botkin <dale@botkin.org>
To: QRP list <qrp-l@Lehigh.EDU>
Subject: [167559] ScQRPion Special keyers
Message-ID: <Pine.LNX.4.33.0402101429270.9800-100000@madmax.botkin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well, the mail carrier just delivered the first run of boards for the ScQRPion Special keyer kits. I'm in the process of completing the kitting and will start mailing kits out tonight. I should have most of the kits out the door tonight and tomorrow, and all of them gone by Friday evening.

Here is a list of people I have ready to ship with this batch. If you ordered and paid for one and do NOT see your name on this list, please contact me via email off-list ASAP. Thanks!

George, Miller, Gudicello, Olson, Martin, Leech, Stevens, Mackanos,
McDermid, Lyons, Fitzgerald, Wilson, Lim, Minsky, Pump, Yarnes, Scott,
Dorson, Wheeler, Swesey, Hedges, Keon, Sellmeyer, Cox, Grace.

72,

Dale - n0xas

--

It's a thankless job, but I've got a lot of Karma to burn off.

The NEW Super PicoKeyer offers speed control by pot OR menu!

Check <http://www.hamgadgets.com> for news.

End of QRP-L Digest 3192
